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CERN/PS 96-01 (DI)
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CERN/PS 95-01 (DI)

PS Division Reports. January – December, 1994.
Edited by S.L. Neboux

CERN/PS 95-02 (PA)

Observation of High Order Head-Tail Instabilities at CERN-PS.
R. Cappi
Workshop on Collective Effects in Large Hadron Colliders, 7-22 October 1994, Montreux ,
Switzerland,

CERN/PS 95-03 (CO)

Integrating Commercial Software in Accelerator Control Case Study
A. Pace
CTDCA (International Conference on Current Trends on Data Acquisition and Accelerator
Control) - 5-9 December 1994, Calcutta, India.

CERN/PS 95-04 (OP)

Emittance Measurements with the CERN PS Wire Scanner
Ch. Steinbach
International Workshop on Particle Dynamics in Accelerators, "Emittance in Circular
Accelerators", 21-26.11.1994, Tsukuba, Japan

CERN/PS 95-05 (PA)

Emittance Issues in the CERN-PS
R. Cappi
International Workshop on Particle Dynamics in Accelerators, "Emittance in Circular
Accelerators", 21-26.11.1994, Tsukuba, Japan

CERN/PS 95-06 (BD/OP)

The Fast Wire Scanner of the CERN PS
V. Agoritsas, E. Falk, F. Hoekemeijer, J. Olsfors, Ch. Steinbach

CERN/PS 95-07 (OP)

Operation of the PS Complex in 1994
J. Boillot , (Revised on 6.04.1995)

CERN/PS 95-08 (DI)

On Landau Damping of Dipole Modes by Non-linear Space Charge and Octupoles
D. Möhl

Workshop on Collective Effects in Large Hadron Colliders, 7-22 October 1994, Montreux, Switzerland

CERN/PS 95-09 (AR)

Resonator Method for Impedance Determination

F. Caspers and T. Scholz

Workshop on Collective Effects in Large Hadron Colliders, 7-22 October 1994, Montreux, Switzerland,

CERN/PS 95-10 (DI)

RF Trapping and Acceleration in AUSTRON

E. Griesmayer*)

CERN/PS 95-11 (LP), CLIC Note 275

CLIC TEST Facility Developments and Results

R. Bossart, H. Braun, F. Chautard, M. Comunian, J.P. Delahaye, J.C. Godot, I. Kamber, J.H.B. Madsen, L. Rinolfi, S. Schreiber, G. Suberlucq, I. Wilson, W. Wuensch

1995 Particle Accelerator Conference, Dallas, USA, 30.4.-5.5.95

CERN/PS 95-12 (LP), CLIC Note 276

Tracking Particles with Wake Fields and Space Charge Effects

A.J. Riche

1995 Particle Accelerator Conference, Dallas, USA, 30.4.-5.5.95

CERN/PS 95-13 (PO)

High Current with High Precision Flat-top Capacitor Discharge Power Converters for Pulsed Septum Magnets

Jean-Pierre Royer

EP2 Forum 95, "Electrical Power Technology in European Physics Research", CERN, Geneva, Switzerland, 2-3 March 1995

CERN/PS 95-14 (DI)

Synchrotron-Driven Spallation Sources

P.J. Bryant

1995 Particle Accelerator Conference, Dallas, USA, 1-5 May, 1995

CERN/PS 95-15 (AR/BD)

Parameter List for the Antiproton Accumulator Complex (AAC)

H. Koziol and S. Maury

CERN/PS 95-16 (AR)

Stability Conditions for a Neutralised Electron Cooling Beam

J. Bosser, S. Maury, I. Meshkov, D. Möhl, E. Mustafin, E. Syresin, F. Varenne, P. Zenkevich

1995 Particle Accelerator Conference Dallas, USA, 30.4.-5.5.95

CERN/PS 95-17 (AR)

Neutralisation of the LEAR Electron-Cooling Beam: Experimental Results

J. Bosser, F. Caspers, M. Chanel, R. Ley, R. Maccaferri, S. Maury, I. Meshkov, G. Molinari, V. Polyakov, A. Smirnov, O. Stepashkin, E. Syresin, G. Tranquille, and F. Varenne

1995 Particle Accelerator Conference, Dallas, USA, 30.4.-5.5.95

CERN/PS 95-18 (PA)

Fast Extracted Proton Beams at Low Energies in the CPS East Experimental Area

R. Cappi, L. Durieu, J.-Y. Hémary, M. Martini, J.P. Riinaud, Ch. Steinbach

1995 Particle Accelerator Conference, Dallas, USA, 30.4.-5.5.95

CERN/PS 95-19 (LP), CLIC Note 278

Generation of a 30 GHz Train of Bunches using a Magnetic Switch-Yard

B. Autin, R. Corsini

1995 Particle Accelerator Conference, Dallas, USA, 30.4.-5.5.95

CERN/PS 95-20 (HI)

Laser Ion Source for Particle Accelerators

T.R. Sherwood

12th International Conference on Laser Interaction and Related Plasma Phenomena, Osaka, Japan, April 24-28, 1995

CERN/PS 95-21 (PA)

Automatic Beam Steering in the CERN PS Complex

B. Autin, G.H. Hemelsoet, M. Martini, E. Wildner

1995 Particle Accelerator Conference, Dallas, USA, 30.4.-5.5.95

CERN/PS 95-22 (PA)

Integration of Symbolic Computing in Accelerator Control

M. Arruat, B. Autin, G.H. Hemelsoet, M. Martini, E. Wildner

4th International Workshop on Software Engineering and Artificial Intelligence for High Energy and Nuclear Physics, Pisa, Italy, 3-8.4. 95

CERN/PS 95-23 (BD)

Diagnostics for Low Intensity Beams

H. Koziol

CERN/PS 95-24 (DI)

Some Thoughts on the Focusing Regime for an Alvarez Linac

E. Griesmayer*)

CERN/PS 95-25 (HI)

Loss Concentration and Evacuation by Mini-Wire-Septa from Circular Machines for Spallation Neutron Sources

H. Schönauer

1995 Particle Accelerator Conference, Dallas, USA, 30.4.-5.5.95

CERN/PS 95-26 (HI)

The CERN Heavy Ion Accelerating Facility

H. Haseroth

1995 Particle Accelerator Conference, Dallas, USA, 30.4.-5.5.95

CERN/PS 95-27 (HI)

Acceleration of Lead Ions in the CERN PS Booster and the CERN PS

F. Blas, P. Bossard, R. Cappi, G. Cyvoct, R. Garoby, G. Gelato, H. Haseroth, E. Jensen,

D. Manglunki, K. Metzmacher, F. Pedersen, N. Rasmussen, K. Schindl, G. C. Schneider,

H. Schönauer, L. Sermeus, M. Thivent, M. Van Rooij, F. Völker, E. Wildner

1995 Particle Accelerator Conference, Dallas, USA, 30.4.-5.5.95

CERN/PS 95-28 (BD)

Measurements on the Low-Intensity Beams of LEAR and the Antiproton Accumulator

J. Bosser

Second European Workshop on Beam Diagnostics and Instrumentation for Particle Accelerators, Travemünde, Germany, 29-31 May 1995

CERN/PS 95-29 (OP)

Determination of Beam Parameters for LEAR with Neural Nets

M. Ludwig and G. Stimpfl-Abele

4th International Workshop on Software Engineering and Artificial Intelligence for High Energy Physics, Pisa, Italy, 3-8 April 1995

CERN/PS 95-30 (HI)

Electrostatic Quadrupoles

K. Masek and T.R. Sherwood

CERN/PS 95-31 (AR), [CERN/SL 95-76 (AP)]

Impedances of LHC-Liner Perforations

F. Caspers and T. Scholz

CERN/PS 95-32 (PO)

The Vertical Distributor System of the Lead-Ion Beam in the Linac to Booster Injection Line at CERN

F. Völker

CERN/PS 95-33 (RF)

A 3 GHz Photoelectron gun for high beam intensity

R. Bossart, H. Braun, M. Dehler, J.-C. Godot

17th International Free Electron Laser Conference, August 21-25 1995, New York, USA

CERN/PS 95-34 (CO)

Representation and Usage of Knowledge for Initialization of Accelerator Control Equipment

J.-M. Bouché, G. Daems, V. Filimonov, V. Khomoutnikov, F. Perriollat, Y. Ryabov

"Real Time '95", IXth. Conf. on Real-Time Computer Applications in Nuclear, Particle, and Plasma Physics, May 23-26, East Lansing, MI, U.S.A.

CERN/PS 95-35 (AR)

Measurement of the Lifetime of Pb52+, Pb53+ and Pb54+ at 4.2 MeV per Nucleon Subject to Electron Cooling

S. Baird, J. Bosser, C. Carli, M. Chanel, P. Lefèvre, R. Ley, R. Maccaferri, S. Maury, I. Meshkov, D. Möhl, G. Molinari, F. Motsch, H. Mulder, G. Tranquille, F. Varenne

Paper published in Physics Letters B

CERN/PS 95-36 (AR)

The Antiproton Decelerator (AD), A Simplified Antiproton Source (Feasibility Study)

B. Autin, S. Baird, D. Berlin, J. Boillot, J. Bosser, M. Brouet, F. Caspers, M. Chanel, V. Chohan, T. Eriksson, R. Garoby, R. Giannini, M. Giovannozzi, J. Gruber, J.Y. Hémerly, H. Koziol, R. Maccaferri, S. Maury (editor), K. Metzmacher, D. Möhl, H. Mulder, F. Pedersen, F. Perriollat, A. Poncet, J.P. Riunaud, C. Serre, D.J. Simon, G. Tranquille, J. Tuyn, B. Williams, and D.J. Williams

CERN/PS 95-37 (CO)

Model Based, Detailed Fault Analysis in the CERN PS Complex Equipment

M. Beharrell, G. Benincasa, J.-M. Bouché, J. Cuperus, M. Lelaizant, L. Mérard

ICALEPCS'95, Int. Conference on Accelerator and Large Experimental Physics Control Systems, Chicago (U.S.A.), Oct. 29-Nov. 3, 1995

CERN/PS 95-38 (CO)

Automatic Generation of Configuration Files for a Distributed Control System

J. Cuperus, A. Gagnaire

ICALEPCS'95, Int. Conf. on Accelerator and Large Experimental Physics Control Systems, Chicago (U.S.A.), Oct. 29-Nov. 3, 1995

CERN/PS 95-39 (CO)

Experience in the Exploitation of a Large Control System

G. Daems, F. Perriollat, C. Serre

ICALEPCS'95, Int. Conf. on Accelerator and Large Experimental Physics Control Systems, Chicago (U.S.A.), Oct. 29-Nov. 3, 1995

CERN/PS 95-40 (CO)

Distributed Memory in a Heterogeneous Network, as used in the CERN PS Complex Timing System

V. Kovaltsov, J. Lewis

ICALEPCS'95, Int. Conf. on Accelerator and Large Experimental Physics Control Systems, Chicago (U.S.A.), Oct. 29-Nov. 3, 1995

CERN/PS 95-41 (CO)

A Rule-Based Consultant for Accelerator Beam Scheduling used in the CERN PS Compl
J. Lewis, P. Skarek, L. Varga
ICALEPCS'95, Int. Conf. on Accelerator and Large Experimental Physics Control Systems,
Chicago (U.S.A.), Oct. 29-Nov. 3, 1995

CERN/PS 95-42 (CO)

Migrating the CERN PS Control System to IBM Workstations
N. de Metz-Noblat
ICALEPCS'95, Int. Conf. on Accelerator and Large Experimental Control Systems, Chicago
(U.S.A.), Oct. 29-Nov. 3, 1995

CERN/PS 95-43 (RF/CO)

Controls Upgrade of the RF Systems of the CERN PS
N. de Metz-Noblat, F. di Maio, R. Garoby, M. Gouber-Pace, S. Hancock
ICALEPCS'95, Int. Conf. on Accelerator and Large Experimental Physics Control Systems,
Chicago (U.S.A.), Oct. 29-Nov. 3, 1995

CERN/PS 95-44 (CO)

Using Software Quality Analysis Tools in the Development of an Equipment Access Library
C.-H. Sicard, O. Walter
ICALEPCS'95, Int. Conf. on Accelerator and Large Experimental Control Systems, Chicago
(U.S.A.), Oct. 29-Nov. 3, 1995

CERN/PS 95-45 (CO)

Towards a Common Object Model and API for Accelerator Controls
F. di Maio, J. Meyer, A. Götz
ICALEPCS'95, Int. Conf. on Accelerator and Large Experimental Control Systems, Chicago
(U.S.A.), Oct. 29-Nov. 3, 1995

CERN/PS 95-46 (HI)

A Single Pulse Beam Emittance Measurement for the CERN Heavy Ion Linac
M. Crescenti, U. Raich
2nd European Workshop on Beam Diagnostics and Instrumentation for Particle Accelerators,
Travemünde, 28-31 May 1995

CERN/PS 95-47 (HI)

Laser Ion Source Studies at CERN
John Tambini
(reporting for the CERN laser ion source collaboration)
Fourth International Workshop on Iodine Lasers and their Applications, Trest Castle, Czech
Republic, 19-22 September 1995

CERN/PS 95-48 (DI)

The Accelerator Complex for the AUSTRON Neutron Spallation Source and Light-ion Cancer
Therapy Facility
The AUSTRON Accelerator Study Group supported by the Austrian government and hosted
by CERN

CERN/PS 95-49 (LP) CLIC Note 293

The CLIC Test Facilities
reported by H. Braun, J.P. Delahaye, I. Wilson
LCWS95 Workshop on Physics with Linear Colliders, Iwate, Japan, 8-12 9.95

CERN/PS 95-50 (HI)

Pulsed ECR Source in Afterglow Operation at CERN
C.E. Hill, K. Langbein
6th International Conference on Ion Sources (ICIS'95) Whistler, BC, Canada, 10-16.09.95

CERN/PS 95-51 (HI)

Multi-Charged Ion Sources for Pulsed Accelerators

H. Haseroth, C.E. Hill

6th International Conference on Ion Sources (ICIS'95) Whistler, BC, Canada, 10-16.09.95

CERN/PS 95-52 (HI)

Numerical Simulation and Interpretation of the Results of Lead Ion Production in the ECR Ion Source at CERN

H. Haseroth, C.E. Hill, K. Langbein, G.D. Shirkov

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